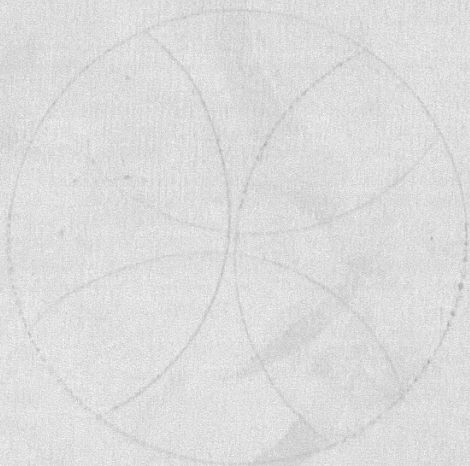


H6112





(19) 122  
Dredge } No. 6112 Date, Aug 14, 1915  
Hydrog. }  
Sdg. Mch. Lucas Reel L Shot Lead 30 lbs.  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 200 fms.  
Sdg. Cup Soft soap Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom (fine) Gray sand  
Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                   { Stem. \_\_\_\_\_  
Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
Temp. Surf. { 56° Time 5.47 P.m. Air { 67°  
                  { \_\_\_\_\_ Time \_\_\_\_\_                   { \_\_\_\_\_  
Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
Wind: Direction W x S Force 3  
Baromet. 30.15 Amt. of Clouds 1 State of Sea 7a  
Weather bc  
Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_  
Tide \_\_\_\_\_  
General Locality Off Washington Coast  
Position Pachema Pt. Light bears N 70° E (true) distant 44 3/4 miles  
Chart used: No. Plotting Sheet 109 Ed'n 46.7  
Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_  
Depth of Haul \_\_\_\_\_  
Apparatus and Rig used \_\_\_\_\_  
Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.  
Remarks: \_\_\_\_\_  
Deck Officer Mr. Conroy Recorder Blaker

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. Down.			Up. V. M.				M. Down.			Up. M.		
5	40	30		46	00	0						
	41	15		45	15	100						
	42	10		44	35	200						
	43	15	5	44	00	300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
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						2800						
						2900						
						3000						
						3100						
						3200						
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						3600						
						3700						
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						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

20 123  
Dredge } No. 6113 Date, Aug 14, 1915  
Hydrog. }  
Sdg. Mch. Lucas Reel S Shot Lead 3 lbs.  
Turns Cor'n Depth 390 fms.  
Sdg. Cup Soft Clay Amt. Bot'm Sample  
Character of Bottom gy S

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 52.0 Time 6:34 A Air { 67.0  
Time

Density: Surf. fms.

Wind: Direction WGS Force 5

Baromet. 30.14 Amt. of Clouds 2 State of Sea 7

Weather bc

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Washington Coast

Position Pachena Pt. Light N 70° E (true) distant 6.70

Chart used: No. Plotting Sheet No 9 Ed'n 49 1/2 miles

Drift: Direction Distance 51.5

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Glick Recorder Stratton

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	M.			M. Down.	Up.	M.	
6 24 50	6 32 00			0				
25 40	31 20			100				
26 25	30 40			200				
27 20	30 00			300				
6 28 20	6 29 20			390 400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
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				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
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				3600				
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				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

(21)

124

Dr. No. 6114 Date, Aug. 14, 1915  
Hydrog. Lucas Reel 2 Shot Lead 30 lbs.  
Turns Cor'n Depth 724 fms.

Sdg. Cup Soft Soap Amt. Bot'm Sample  
Character of Bottom (GAS G)  
(gy)

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 52° Time 7:25 A } Air { 67°  
Time

Density: Surf. fms.

Wind: Direction W by S Force 3

Baromet. 30.14 Amt. of Clouds 2 State of Sea IV

Weather bc

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) 67° 5' distant 5.44 miles

Chart used: No Plotting Sheet No 9 Ed'n 56.3

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Glick Recorder J. A. H. -

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. DOWN.			UP. P. M.				M. DOWN.			UP. M.		
7	12	25	7	26	25	0						
	13	20		25	35	100						
	14	10		25	05	200						
	15	05		24	25	300						
	16	05		23	45	400						
	17	15		23	05	500						
	18	40		22	40	600						
	19	55		21	20	700						
7	20	25	7	20	50	724 800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
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						3900						
						4000						
						4100						
						4200						
						4300						
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						4500						
						4600						
						4700						
						4800						
						4900						



{Dredge } No. 6115 Date, August 14, 1915  
 {Hydrog. }  
 Sdg. Mch. Lucas Reel Lucas Shot 30 lbs.  
 Lead  
 Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 500 fms.  
 Sdg. Cup Orming (soft soap) Amt. Bot'm Sample \_\_\_\_\_  
 Character of Bottom No bottom

Thermom.	{	Make	.....	Cor'n	{	Instr.	.....
		No.	.....			Stem.	.....

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 58° Time 8:55 } Air { 64°  
Time

Density: Surf. ----- 1/ ----- fms. -----

Wind: Direction *SxN* Force *3*

Baromet. 30.14 Amt. of Clouds 2 State of Sea M

Weather bc

Direction and Force of Current.	Surface	
	Bottom	

*Tide*

General Locality *Off Washington Coast*

Position Pachena Pt. Light bears  $N 70^{\circ} E$  (true) distant 59 miles

Chart used: No. Plotting Sheet Ed'n 54 miles  
NO 9 61.0

*Drift: Direction* 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 *Distance* 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360

Depth of Haul .....

#### Apparatus and Rig used

Time towing ..... h. .... m.

Remarks: \_\_\_\_\_

Deck Officer McShepley Recorder Larker 11-1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. DOWN.			Up. P. M.				M. DOWN.		Up.		M.	
8	45	25	8	54	55	0						
8	46	10	8	53	05	100						
8	46	55	8	52	30	200						
8	47	55	8	51	55	300						
8	48	50	8	51	20	400						
8	49	55	8	50	25	500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

~~Hydrog.~~ } No. 1115 Date, 1/5, 1905  
Sdg. Mch. \_\_\_\_\_ Reel 12 Shot 30 lbs.  
Lead \_\_\_\_\_  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 400 fms.  
Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom Y. V. M. S. M.  
Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                         { Stem. \_\_\_\_\_  
Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
Temp. Surf. { \_\_\_\_\_ Time \_\_\_\_\_ } Air { 63°  
                  { \_\_\_\_\_ Time \_\_\_\_\_ }  
Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
Wind: Direction S x W Force 3  
Baromet. 30.13 Amt. of Clouds 2 State of Sea M  
Weather \_\_\_\_\_  
Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_  
Tide \_\_\_\_\_

General Locality Off Washington Coast  
Position Pachena Pt. Light bears N 70° E (true) distant  
6 3/4 miles  
Chart used: No. Plotting Sheet No 9 ED'n \_\_\_\_\_  
Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_  
Depth of Haul \_\_\_\_\_  
Apparatus and Rig used \_\_\_\_\_  
Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.  
Remarks: \_\_\_\_\_

## SOUNDING WIRE.

M. Down. Up. M.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

24/ 127

Dredge } No. 6117 Date, Apr 1904  
Hydrog. }  
Sdg. Mch. Lucas Reel Shot Lead lbs.  
Turns Cor'n Depth fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom M

Thermom. { Make Cor'n { Instr.  
                  { No.                   { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 54 Time Air { 62  
                  {                   {                   {

Density: Surf. fms.

Wind: Direction. Force 3

Baromet. 30.1 Amt. of Clouds 2 State of Sea M

Weather

Direction and Force of Current { Surface  
  { Bottom

Tide

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 6 1/2 miles

Chart used: No. Plotting Sheet 1789 Ed'n 70.3

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Hydrog. No. 6118 Date, July, 1911  
 Sdg. Mch. Tanner Reel Long Shot/Lead 1 lbs.  
 Turns 1 Cor'n 1 Depth 1 fms.  
 Sdg. Cup 1 Amt. Bot'm Sample 1  
 Character of Bottom 1

Thermom. { Make 1 Cor'n { Instr. 1  
 { No. 1 { Stem. 1

Bottom Reading 1 Cor'd Temp. 1

Temp. Surf. { 54° Time 11:22 } Air { 61°  
 { 1 Time 1 }

Density: Surf. 1 fms. 1

Wind: Direction 1 Force 1

Baromet. 30.13 Amt. of Clouds 1 State of Sea 1

Weather 1

Direction and Force of Current { Surface 1  
 { Bottom 1

Tide 1

General Locality Off Washington Coast

Position Pachena Pt. Light bears N. 70° E (true) distant 7 3/4 miles

Chart used: No. 1 Ed'n 1

Drift: Direction 1 Distance 1

Depth of Haul 1

Apparatus and Rig used 1

Time towing 1 h. 1 m.

Remarks: 1

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
11 11 30	11 20 30		0			
11 12 00	11 19 50		100			
11 12 30	11 19 20		200			
11 13 00	11 18 50		300			
11 13 30	11 18 20		400			
11 14 00	11 17 50		500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
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			2500			
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			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
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			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



11-1027

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
12 02 40	13 45 00		0			
01 40	25 50		100			
02 30	26 00		200			
03 15	25 30		300			
04 40	24 30		400			
05 30	23 30		500			
06 05	23 35		600			
05 50	23 25		700			
07 10	22 50		800			
08 30	22 15		900			
11 50	21 40		1000			
15 30	21 00		1100			
14 50	20 25		1200			
16 20	19 45		1300			
12 17 50	12 18 30		1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 61 Date, 1911  
Hydrog. }  
Sdg. Mch. Reel Shot & Lead 30 lbs.  
Turns Cor'n Depth fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom M. S. M.  
Thermom. { Make Cor'n { Instr.  
                  { No.                   { Stem.  
Bottom Reading 20 fms. Cor'd Temp.  
Temp. Surf. { 53° Time 1:00 P. } Air { 60  
                  {                   Time                   }                     
Density: Surf. fms.  
Wind: Direction West Force 1  
Baromet. 30.11 Amt. of Clouds 2 State of Sea M.  
Weather S.  
Direction and Force of Current { Surface  
  { Bottom  
Tide

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 8 1/4 miles

Chart used: No. Plotting Sheet No. 9 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer O. M. Recorder J. E. H. 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<i>A</i> M. Down.	Up.	<i>A</i> M.		--- M. Down.	Up.	--- M.
1 09 50	1 14 10		0			
1 10 00	1 14 20		100			
1 10 10	1 14 30		200			
1 10 20	1 14 40		300			
1 10 30	1 14 50		400			
1 10 40	1 15 00		500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

11-1022

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
M. Down.	Up.	M.			M. Down.	Up.	M.
2 01 30	2 10 00			0			
02 10	09 20			100			
03 10	08 50			200			
04 10	08 20			300			
05 20	07 50			400			
2 06 35	2 07 50			500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
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				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. \_\_\_\_\_ Date, Dec 15, 1912  
Hydrog. }  
Sdg. Mch. Tanner Reel Lucas Shot-  
Lead 36 lbs.  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth \_\_\_\_\_ fms.  
Sdg. Cup Lucas Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom fine sand

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
              { No. \_\_\_\_\_                 { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 54 Time 3:00 a } Air { 60°  
                  { \_\_\_\_\_ Time \_\_\_\_\_ } \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction SE Force 5

Baromet. 30.09 Amt. of Clouds 1 State of Sea M

Weather bc

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 9 1/4 miles  
68° 51'

Chart used: No. Plotting Sheet No 9 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer Mr. Cassidy Recorder Chas. J. ...

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
2 5200	5810	5	0			
5 5000	5800	5	100			
13 5000	5800	5	200			
45 5000	5800	5	300			
2 5600	5840		400			
2 5710	5800		500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



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Dredge } No. 1 Date, Aug 15, 1911  
Hydrog. }  
Sdg. Mch. Lucas Reel Lucas Shot 30 lbs.  
Leads  
Turns Cor'n Depth 500 fms.  
Sdg. Cup Amount Amt. Bot'm Sample  
Character of Bottom

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 54° Time Air { 60°  
Time

Density: Surf. fms.

Wind: Direction SE x N Force 2

Baromet. 30.09 Amt. of Clouds 1 State of Sea

Weather

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 68054' 97 miles

Chart used: No. Plotting Sheet No 9 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder.

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
A.M. Down:		Up.	A.M.		M. Down.	Up.	M.
3	41	10	8	49	20		
					0		
					100		
					200		
					300		
					400		
					500		
					600		
					700		
					800		
					900		
					1000		
					1100		
					1200		
					1300		
					1400		
					1500		
					1600		
					1700		
					1800		
					1900		
					2000		
					2100		
					2200		
					2300		
					2400		
					2500		
					2600		
					2700		
					2800		
					2900		
					3000		
					3100		
					3200		
					3300		
					3400		
					3500		
					3600		
					3700		
					3800		
					3900		
					4000		
					4100		
					4200		
					4300		
					4400		
					4500		
					4600		
					4700		
					4800		
					4900		

Dredge } No. \_\_\_\_\_ Date, Aug 15, 1911  
 Hydrog. }  
 Sdg. Mch. \_\_\_\_\_ Reel 2 Shot 36 lbs.  
 Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 1455 fms.  
 Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
 Character of Bottom \_\_\_\_\_  
 Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
 { No. \_\_\_\_\_ { Stem. \_\_\_\_\_  
 Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
 Temp. Surf. { Time 5.45.9 } Air { \_\_\_\_\_  
 { \_\_\_\_\_ { \_\_\_\_\_  
 Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
 Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_  
 Baromet. 30.08 Amt. of Clouds 5 State of Sea \_\_\_\_\_  
 Weather \_\_\_\_\_  
 Direction and Force of Current { Surface \_\_\_\_\_  
 { Bottom \_\_\_\_\_  
 Tide \_\_\_\_\_

General Locality off Washington Coast  
 Position Pachena Pt. Light bears N 70° E (true) distant  
68.57 miles  
 Chart used: No. Plotting Sheet Ed'n \_\_\_\_\_  
No 9 101 3/4 miles  
103.0  
 Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_  
 Depth of Haul \_\_\_\_\_  
 Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.  
 Remarks: \_\_\_\_\_

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
14 30			0			
15 20			100			
16 10			200			
17 00			300			
17 50			400			
18 40			500			
19 30			600			
20 20			700			
21 10			800			
22 00			900			
22 50			1000			
23 40			1100			
24 30			1200			
25 20			1300			
26 10			1400			
27 00			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

1257

133

Dredge } No. 125 Date, Aug 15, 1918  
 Hydrog. }  
 Sdg. Mch. 111 Reel 2 Shot 1 Lead 1 lbs.  
 Turns 50 Cor'n 50 Depth 50 fms.  
 Sdg. Cup Del. Sample Amt. Bot'm Sample  
 Character of Bottom V. An. Bot.

Thermom. { Make 55 Cor'n { Instr. 6.34  
 No. 2 Stem. 1.1

Bottom Reading 55 Cor'd Temp. 6.34

Temp. Surf. { Time 6.34 Air { 1.1  
 Time

Density: Surf. 55 fms.

Wind: Direction 55 Force 2

Baromet. 30.09 Amt. of Clouds 2 State of Sea 2

Weather 2

Direction and Force of Current { Surface  
 Bottom

Tide 2

General Locality Off Washington Coast

Position Pacheco Pt. Light bears N 70° E (true) distant

Chart used: No. Plotting Sheet No 9 Ed'n 106 1/2 mile

Drift: Direction 106 1/2 Distance 106 1/2

Depth of Haul 106 1/2

Apparatus and Rig used 106 1/2

Time towing h. m.

Remarks: 106 1/2

Deck Officer Blaker Recorder Blaker

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up. M.		M. Down.	Up.	M.
6 24 10	33 00	0			
25 00	32 15	100			
25 50	31 45	200			
26 45	31 10	300			
28 00	30 30	400			
29 10	30 00	500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

11—1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
12 45	1 15		0			
12 30	1 30		100			
12 15	1 45		200			
12 10	1 55		300			
12 10	2 00		400			
12 10	2 05		500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



Dredge } No. 6127 Date, , 191  
Hydrog. }  
Sdg. Mch. Lucas Reel Shot Lead lbs.  
Turns Cor'n Depth 500 fms.  
Sdg. Cup Drift comp Amt. Bot'm Sample  
Character of Bottom

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 57° Time 8:05 } Air { 67°  
Time

Density: Surf. fms.

Wind: Direction SSW Force 1

Baromet. 30.09 Amt. of Clouds 4 State of Sea 2

Weather bc

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 11.6 mile

Chart used: No Plotting Sheet No 9 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. G. Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
<i>a</i> M. Down.	Up.	<i>a</i> M.			M. Down.	Up.	M.
7 56 15	8	04 50		0			
57 00		03 55		100			
57 40		03 20		200			
58 55		02 40		300			
7 59 25		02 00		400			
8 00 40	8	01 10		500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

*Selg. Mch.**Reel*

Shot  
Lead

lbs.

Turns	Cor'n	Depth	fms.
1		0	
2		1	
3		2	
4		3	
5		4	
6		5	
7		6	
8		7	
9		8	
10		9	
11		10	
12		11	
13		12	
14		13	
15		14	
16		15	
17		16	
18		17	
19		18	
20		19	
21		20	
22		21	
23		22	
24		23	
25		24	
26		25	
27		26	
28		27	
29		28	
30		29	
31		30	
32		31	
33		32	
34		33	
35		34	
36		35	
37		36	
38		37	
39		38	
40		39	
41		40	
42		41	
43		42	
44		43	
45		44	
46		45	
47		46	
48		47	
49		48	
50		49	
51		50	
52		51	
53		52	
54		53	
55		54	
56		55	
57		56	
58		57	
59		58	
60		59	
61		60	
62		61	
63		62	
64		63	
65		64	
66		65	
67		66	
68		67	
69		68	
70		69	
71		70	
72		71	
73		72	
74		73	
75		74	
76		75	
77		76	
78		77	
79		78	
80		79	
81		80	
82		81	
83		82	
84		83	
85		84	
86		85	
87		86	
88		87	
89		88	
90		89	
91		90	
92		91	
93		92	
94		93	
95		94	
96		95	
97		96	
98		97	
99		98	
100		99	
101		100	
102		101	
103		102	
104		103	
105		104	
106		105	
107		106	
108		107	
109		108	
110		109	
111		110	
112		111	
113		112	
114		113	
115		114	
116		115	
117		116	
118		117	
119		118	
120		119	
121		120	
122		121	

Sdg. Cup Raft soap Amt. Bot'm Sample

*Character of Bottom.*

Thermom. { Make .....  
              { No. ....

Cor'n { Instr. ....  
         { Stem. ....

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 52° Time 8:15 } Air { 70°  
Time }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction *SE* Force *1-2*

Baromet. 30.09 Amt. of Clouds 4 State of Sea 2.

Weather *Clear*

Direction and Force of Current.	{	Surface .....	.....
		Bottom .....	.....

*Tide* 0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000

General Locality Off Washington Coast

Position Pachena Pt. Light bears  $N 70^{\circ} E$  (true) distant  $120\frac{3}{4}$  miles

Chart used: No. Plotting Sheet Ed'n 12074 rules  
No 9 172.1

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul .....

#### Apparatus and Rig used.

Time towing \_\_\_\_\_ h, \_\_\_\_\_ m

Remarks: ..

Deck Officer *J. H. ...* Recorder *(Signature)* 11-1023

SOUNDING WIRE.					FMS.	DREDGING CABLE.		
M. Down.		Up.	M.			M. Down.	Up.	M.
8	45	10	8	53	40			
	45	40		52	50			
	46	30		52	15			
	47	35		51	40			
	48	35		57	00			
8	44	15	8	50	00			
					0			
					100			
					200			
					300			
					400			
					500			
					600			
					700			
					800			
					900			
					1000			
					1100			
					1200			
					1300			
					1400			
					1500			
					1600			
					1700			
					1800			
					1900			
					2000			
					2100			
					2200			
					2300			
					2400			
					2500			
					2600			
					2700			
					2800			
					2900			
					3000			
					3100			
					3200			
					3300			
					3400			
					3500			
					3600			
					3700			
					3800			
					3900			
					4000			
					4100			
					4200			
					4300			
					4400			
					4500			
					4600			
					4700			
					4800			
					4900			

*Deadgo* } No. 6120 Date, June 2, 1906  
*Hydrog.* }

Sdg. Mch. 24/25 Reel 1 Shot 3 lbs.

Turns ----- Cor'n ----- Depth 1450 fms.

Sdg. Cup Ch. 7 Amt. Bot'm Sample

Character of Bottom Gr M Fv

Thermom. { Make -----  
              { No. -----

Cor'n { Instr. -----  
          { Stem. -----

Bottom Reading ..... Cor'd Temp. ....

Temp. Surf. { 52 Time 10:02 a Air { 69  
Time

Density: Surf. fms.

Wind: Direction SSW Force 1

Baromet.	30.47	Amt. of Clouds	9	State of Sea	r
----------	-------	----------------	---	--------------	---

Weather *bc*

Direction and Force of Current.  $\left\{ \begin{array}{l} \text{Surface} \\ \text{Bottom} \end{array} \right.$

Tide .....

General Locality off Washington Coast

Position Pachena Pt. Light bears  $N 70^{\circ} E$  (true) distant  $12\frac{1}{2}$  miles

Chart used: No *Plotting Sheet* No 9 *12 1/2 miles*  
*1773*

Drift: Direction ..... Distance .....

Depth of Haul .....

*Apparatus and Rig used.*

Time towing                      h.                      m.

Remarks:

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_ 11-1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
M. Down.		Up.	M.				M. Down.		Up.	M.		
9	37	50	10	00	20	0						
	33	35		57	15	100						
	4	25		52	35	200						
	25	20		58	00	300						
	16	15		57	20	400						
	27	15		56	45	500						
	31	25		56	05	600						
	30	30		55	30	700						
	40	40		54	50	800						
	41	55		54	10	900						
	43	05		53	30	1000						
	44	15		52	45	1100						
	45	25		51	55	1200						
	46	40		51	05	1300						
	48	00		50	10	1400						
9	49	00	9	49	30	1450						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

(175)  
Reel No. 650 Date, Feb. 15, 1915  
Sdg. Mch. Reel Shot/Lead 30 lbs.  
Turns Cor'n Depth 0 fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 56° Time 10:52 Air { 69°  
Time

Density: Surf. fms.

Wind: Direction SSW Force

Baromet. 30.09 Amt. of Clouds 0 State of Sea 2

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 69.5 miles

Chart used: No. Plotting Sheet Ed'n No 9 1304 miles 131.7

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer J. C. Recorder A. H. 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
10 41 00	10 50 00		0			
41 55	47 05		100			
42 40	48 35		200			
43 30	47 45		300			
44 30	46 55		400			
10 45 55	10 45 50		500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



~~Dredge~~ } No. 6131 Date, Aug. 15, 1915  
 Hydrog. }  
 Sdg. Mch. Lucas Reel 25 Shot 30 lbs.  
 Lead }  
 Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 0 fms.  
 Sdg. Cup Lucas Amt. Bot'm Sample \_\_\_\_\_  
 Character of Bottom \_\_\_\_\_

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
 No. \_\_\_\_\_ Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 52.0 Time 11:40 Air { 71.0  
 \_\_\_\_\_ Time \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction ESW Force 1

Baromet. 30.0 Amt. of Clouds 6 State of Sea 1

Weather bc

Direction and Force of Current { Surface \_\_\_\_\_  
 Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 13.5 miles  
17.5

Chart used: No. Plotting Sheet No 9 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer W. H. Hays Recorder W. H. Hays

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
11 29 05	11 38 20		0			
29 45	37 25		100			
30 40	36 45		200			
31 40	36 00		300			
32 40	35 10		400			
11 33 50	11 34 10		500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Hydrog. } No. 6132 Date, Aug. 15, 1911  
 Sdg. Mch. Lucas Reel L Shot/Lead 30 lbs.  
 Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 300 fms.  
 Sdg. Cup S&S S&S Amt. Bot'm Sample \_\_\_\_\_  
 Character of Bottom No bottom

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
 { No. \_\_\_\_\_ { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 57° Time 12:19 } Air { \_\_\_\_\_  
 { \_\_\_\_\_ Time \_\_\_\_\_ }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction SSW Force 1

Baromet. 30.08 Amt. of Clouds 7 State of Sea 2

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
 { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 13 3/4 miles  
6 1/2 1/2

Chart used: No. Plotting Sheet No 9

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_

Recorder \_\_\_\_\_

## SOUNDING WIRE.

M. Down. Up. M.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400  
2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900

Dredge } No. 6133 Date, , 19  
Hydrog. }  
Sdg. Mch. Lucas Reel Shot/Lead lbs.  
Turns Cor'n Depth 500 fms.  
Sdg. Cup Jennings (bolt rope) Amt. Bot'm Sample  
Character of Bottom V. H. No. bottomed

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 55° Time 1:12 } Air { 17  
Time

Density: Surf. fms.

Wind: Direction NW Force 1

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 14.9020' 14 1/2 miles

Chart used: No. Plotting Sheet Ed'n 109 146.0

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer M. Messer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
<i>P</i> M. DOWN.	UP. <i>P</i>	M.		M. DOWN.	UP.	M.
1 61			0			
1 92			100			
1 23			200			
1 54			300			
1 85			400			
1 16			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

144  
Dredge } No. 1134 Date, \_\_\_\_\_, 19\_\_\_\_  
Hydrog. }  
Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 1445 fms.  
Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom Brown mud

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                   { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { \_\_\_\_\_ Time \_\_\_\_\_ } Air { \_\_\_\_\_  
                  { \_\_\_\_\_ Time \_\_\_\_\_ }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_

Baromet. 30.09 Amt. of Clouds 10 State of Sea \_\_\_\_\_

Weather V. Calm

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 69' 25"  
14 9/14 miles

Chart used: No. Plotting Sheet No 9 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks:

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1 50 00	2 16 45		0			
1 50 50	2 15 45		100			
1 51 40	2 15 10		200			
1 52 40	2 14 30		300			
1 53 35	2 14 00		400			
1 54 35	2 13 20		500			
1 55 35	2 12 50		600			
1 56 40	2 12 10		700			
1 57 45	2 11 30		800			
1 59 00	2 10 50		900			
2 00 15	2 10 10		1000			
2 01 30	2 09 30		1100			
2 02 45	2 08 50		1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



165  
Dredge } No. 6133 Date, , 19  
Hydrog. }  
Sdg. Mch. Lucas Reel Lucas Shot } 30 lbs.  
Lead }  
Turns Cor'n Depth fms.  
Sdg. Cup. Amt. Bot'm Sample  
Character of Bottom 0 1 No Bottom

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {  
Time

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° 30' E (true) distant 7.54 miles

Chart used: No. Plotting Sheet No 9 Ed'n 155

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

## SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

## DREDGING CABLE.

M. Down. | Up. | M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

17  
Dredge } No. 6126 Date, , 19  
Hydrog. }  
Sdg. Mch. Reel Shot } 30 lbs.  
Lead }  
Turns Cor'n Depth 50 fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 35° Time 5:55 } Air { 62°  
Time

Density: Surf. fms.

Wind: Direction N.W. Force 1

Baromet. 29.98 Amt. of Clouds 10 State of Sea 4

Weather

Direction and Force of Current { Surface  
Bottom

Tide

General Locality off Washington Coast

Position 69°32' Pachea Pt. Light bears N 70° E (true) distant 15.8 3/4 miles

Chart used: No Plotting Sheet No 9 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M.	Down.	Up.	M.		M.	Down.	Up.	M.
				0				
3	46	55	2	100				
	47			200				
				300				
3	49	55	2	400				
		58	3	500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 6137 Date, August 15, 1917  
 Hydrog. }  
 Sdg. Mch. Lucas Reel Lucas Shot & Lead 30 lbs.  
 Turns Cor'n Depth fms.  
 Sdg. Cup Amt. Bot'm Sample  
 Character of Bottom *fine sand*

Thermom. { Make Cor'n { Instr.  
 No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 57° Time 4:00 P. } Air { 62°  
 Time

Density: Surf. fms.

Wind: Direction N.W. Force 13

Baromet. 30.07 Amt. of Clouds 10 State of Sea 7/8

Weather *ccm*

Direction and Force of Current { Surface  
 Bottom

Tide

General Locality *Off Washington Coast*

Position *57° 34' N*  
*Pachena Pt. Light bears N 70° E (true) distant 16 3/4 miles*

Chart used: No. *Plotting Sheet No 9* Ed'n 16572

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer: *J. E. ...* Recorder *J. E. ...*

## SOUNDING WIRE.

M. Down.	Up.	P. M.
34 30	40 40	
35 20	40 15	
36 15	39 45	
37 15	39 15	
38 20	4 35 40	

FMS.

## DREDGING CABLE.

M. Down. Up. M.

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400  
2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900

Hydrog. No. *111* Date, *Aug 10*, 19*15*  
 Sdg. Mch. *Lucas* Reel *Lucas* Shot Lead *30* lbs.  
 Turns Cor'n Depth fms.  
 Sdg. Cup *Coring (off bottom)* Amt. Bot'm Sample  
 Character of Bottom *fine sand*

Thermom. { Make Cor'n { Instr.  
 No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { *56°* Time *5:00 P* } Air { *62°*  
 Time

Density: Surf. fms.

Wind: Direction *N. 2 E* Force *3-4*

Baromet. *30.06* Amt. of Clouds *10* State of Sea *1*

Weather *oc*

Direction and Force of Current { Surface  
 Bottom

Tide

General Locality *Off Washington Coast*

Position *Pachena Pt. Light bears <sup>69°36'</sup> N 70° E (true) distant*

Chart used: No. *Plotting Sheet* Ed'n *168 1/4 miles*  
*109* *16.9.1.*

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer *Mr. Glick* Recorder *C. B. K.*

SOUNDING WIRE.					FMS.	DREDGING CABLE.		
P	M. DOWN.		Up.	M.		M. DOWN.	Up.	M.
5	21	20	5	29 60	0			
	22	05		29 05	100			
	23	10		28 40	200			
	24	10		28 10	300			
	25	15		27 40	400			
5	26	40	5	27 05	500			
					600			
					700			
					800			
					900			
					1000			
					1100			
					1200			
					1300			
					1400			
					1500			
					1600			
					1700			
					1800			
					1900			
					2000			
					2100			
					2200			
					2300			
					2400			
					2500			
					2600			
					2700			
					2800			
					2900			
					3000			
					3100			
					3200			
					3300			
					3400			
					3500			
					3600			
					3700			
					3800			
					3900			
					4000			
					4100			
					4200			
					4300			
					4400			
					4500			
					4600			
					4700			
					4800			
					4900			



Dredge } No. *1129* Date, *Aug 15*, 19*15*  
 Hydrog. }  
 Sdg. Mch. *Lucas* Reel *5* Shot *5* lbs.  
 Turns ----- Cor'n ----- Depth *1430* fms.  
 Sdg. Cup *Lucas* Amt. Bot'm Sample -----  
 Character of Bottom *(C) G*  
 Thermom. { Make ----- Cor'n { Instr. -----  
 { No. ----- { Stem. -----  
 Bottom Reading ----- Cor'd Temp. -----  
 Temp. Surf. { *55* Time *(4.45)* } Air { *61*  
 { ----- Time ----- } -----  
 Density: Surf. ----- fms. -----  
 Wind: Direction *110* Force *3-4*  
 Baromet. *30.5* Amt. of Clouds *10* State of Sea *1/4*  
 Weather -----  
 Direction and Force of Current { Surface -----  
 { Bottom -----  
 Tide -----

General Locality *Off Washington Coast*  
 Position *Pachena Pt. Light bears N 70° E (true) distant*  
*6.9 miles*  
 Chart used: No. *Plotting Sheet No 9* Ed'n *1745*  
 Drift: Direction ----- Distance -----  
 Depth of Haul -----  
 Apparatus and Rig used --

Time towing h. m.

Remarks:

200 ft

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
17 20	2 10		0			
18 20	13 10		100			
19 10	23 20		200			
20 10	33 30		300			
21 10	43 40		400			
22 10	53 50		500			
23 10	63 50		600			
24 35	73 50		700			
25 45	83 50		800			
27 10	93 50		900			
28 35	38 00		1000			
29 15	48 10		1100			
31 00	36 45		1200			
32 35	36 05		1300			
34 00	35 20		1400			
43 10	35 00		1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 111 Date, (11/11/1900), 1900  
Hydrog. }  
Sdg. Mch. (Shot) Reel (Lead) lbs.

Turns	Cor'n	Depth	fms.
1		10	10
2		20	20
3		30	30
4		40	40
5		50	50
6		60	60
7		70	70
8		80	80
9		90	90
10		100	100
11		110	110
12		120	120
13		130	130
14		140	140
15		150	150
16		160	160
17		170	170
18		180	180
19		190	190
20		200	200
21		210	210
22		220	220
23		230	230
24		240	240
25		250	250
26		260	260
27		270	270
28		280	280
29		290	290
30		300	300
31		310	310
32		320	320
33		330	330
34		340	340
35		350	350
36		360	360
37		370	370
38		380	380
39		390	390
40		400	400
41		410	410
42		420	420
43		430	430
44		440	440
45		450	450
46		460	460
47		470	470
48		480	480
49		490	490
50		500	500
51		510	510
52		520	520
53		530	530
54		540	540
55		550	550
56		560	560
57		570	570
58		580	580
59		590	590
60		600	600
61		610	610
62		620	620
63		630	630
64		640	640
65		650	650
66		660	660
67		670	670
68		680	680
69		690	690
70		700	700
71		710	710
72		720	720
73		730	730
74		740	740
75		750	750
76		760	760
77		770	770
78		780	780
79		790	790
80		800	800
81		810	810
82		820	820
83		830	830
84		840	840
85		850	850
86		860	860
87		870	870
88		880	880
89		890	890
90		900	900
91		910	910
92		920	920
93		930	930
94		940	940
95		950	950
96		960	960
97		970	970
98		980	980
99		990	990
100		1000	1000

Sdg. Cup Soft Soap Amt. Bot'm Sample ..

Character of Bottom fine, yellow, sandy

Thermom.  $\left\{ \begin{array}{l} \text{Make.} \\ \text{No.} \end{array} \right.$  Cor'n  $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right.$

Bottom Reading ..... Cor'd Temp. ....

Temp. Surf. { Time 7.25 A } Air { 60 }  
Time

Density: Surf. . . . . fms. . . . .

Wind: Direction N 60 Force 3-4

Baromet. 30.6 Amt. of Clouds 10 State of Sea 711

Weather . . .

Direction and Force of Current.	{	Surface	.....
		Bottom	.....

Title \_\_\_\_\_

General Locality *Off Washington Coast*

Position Pachena Pt. Light bears  $N 70^{\circ} E$  (true) distant  $17 \frac{1}{2}$  miles

Chart used: No. *Plotting Sheet No. 9* Ed'n *1774-7*

*Drift: Direction* . . . . . *Distance*

Depth of Haul .....

### Apparatus and Rig used

Time towing	$h$	$m$
10	1.0	0.0
20	1.0	0.0
30	1.0	0.0
40	1.0	0.0
50	1.0	0.0
60	1.0	0.0
70	1.0	0.0
80	1.0	0.0
90	1.0	0.0
100	1.0	0.0
110	1.0	0.0
120	1.0	0.0
130	1.0	0.0
140	1.0	0.0
150	1.0	0.0
160	1.0	0.0
170	1.0	0.0
180	1.0	0.0
190	1.0	0.0
200	1.0	0.0
210	1.0	0.0
220	1.0	0.0
230	1.0	0.0
240	1.0	0.0
250	1.0	0.0
260	1.0	0.0
270	1.0	0.0
280	1.0	0.0
290	1.0	0.0
300	1.0	0.0
310	1.0	0.0
320	1.0	0.0
330	1.0	0.0
340	1.0	0.0
350	1.0	0.0
360	1.0	0.0
370	1.0	0.0
380	1.0	0.0
390	1.0	0.0
400	1.0	0.0
410	1.0	0.0
420	1.0	0.0
430	1.0	0.0
440	1.0	0.0
450	1.0	0.0
460	1.0	0.0
470	1.0	0.0
480	1.0	0.0
490	1.0	0.0
500	1.0	0.0
510	1.0	0.0
520	1.0	0.0
530	1.0	0.0
540	1.0	0.0
550	1.0	0.0
560	1.0	0.0
570	1.0	0.0
580	1.0	0.0
590	1.0	0.0
600	1.0	0.0
610	1.0	0.0
620	1.0	0.0
630	1.0	0.0
640	1.0	0.0
650	1.0	0.0
660	1.0	0.0
670	1.0	0.0
680	1.0	0.0
690	1.0	0.0
700	1.0	0.0
710	1.0	0.0
720	1.0	0.0
730	1.0	0.0
740	1.0	0.0
750	1.0	0.0
760	1.0	0.0
770	1.0	0.0
780	1.0	0.0
790	1.0	0.0
800	1.0	0.0
810	1.0	0.0
820	1.0	0.0
830	1.0	0.0
840	1.0	0.0
850	1.0	0.0
860	1.0	0.0
870	1.0	0.0
880	1.0	0.0
890	1.0	0.0
900	1.0	0.0
910	1.0	0.0
920	1.0	0.0
930	1.0	0.0
940	1.0	0.0
950	1.0	0.0
960	1.0	0.0
970	1.0	0.0
980	1.0	0.0
990	1.0	0.0
1000	1.0	0.0

Remarks: \_\_\_\_\_

Deck Officer, \_\_\_\_\_ Recorder \_\_\_\_\_ 11-10223

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
7 15.10		15.00	0			
13.50		14.50	100			
13.40		14.40	200			
13.10		14.10	300			
12.30		13.30	400			
11.50		12.50	500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Trawl } No. 6141 Date, Aug 15, 1911  
 Hydrog. }  
 Sdg. Mch. Lucas Reel L Shot Lead 50 lbs.  
 Turns Cor'n Depth 0 fms.  
 Sdg. Cup Amt. Bot'm Sample  
 Character of Bottom

Thermom. { Make Cor'n { Instr.  
 { No. { Stem.  
 Bottom Reading Cor'd Temp.  
 Temp. Surf. { 54° Time 8:12 } Air { 58°  
 { Time

Density: Surf. fms.  
 Wind: Direction NW Force 3  
 Baromet. 30.07 Amt. of Clouds 10 State of Sea 71  
 Weather

Direction and Force of Current { Surface  
 { Bottom

Tide

General Locality off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant  
 18 1/2 miles

Chart used: No. Plotting Sheet Ed'n  
 No 9

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Cassin Recorder J. H. Smith

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
8 02 00	8 10 50		0			
02 30	09 05		100			
03 10	08 35		200			
04 15	08 05		300			
05 50	07 30		400			
4 06 20	4 06 45		500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

11-1023

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
7	M. Down.		Up.	7	M.		M. Down.	Up.	M.
8	48	50	8	58	50	0			
	49	25		57	52	100			
	50	25		57	15	200			
	51	40		56	25	300			
	52	55		55	40	400			
8	54	25	8	57	15	500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
						2200			
						2300			
						2400			
						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			



153  
Trawl } No. 6143 Date, Feb 15, 1915  
Hydrog. }  
Sdg. Mch. Lucas Reel L Shot } 30 lbs.  
Lead }  
Turns Cor'n Depth 0 fms.  
Sdg. Cup Sft. Soap Amt. Bot'm Sample 500  
Character of Bottom

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time 9:49 } Air { 70 }  
Time

Density: Surf. fms.

Wind: Direction NW Force 3-4

Baromet. 30.09 Amt. of Clouds 10 State of Sea IV

Weather or

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Washington Coast

Position Pachena Pt. Light bears 18° 10' E (true) distant 19.2 miles  
69° 11' N

Chart used: No. Plotting Sheet Ed'n 104

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Cassin Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
9 37 00	9 47 15		0			
37 30	46 10		100			
28 15	45 20		200			
30 20	44 25		300			
40 35	43 30		400			
9 41 50	9 42 20		500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

152

Hydrog. } No. 6100 Date, Jan 15, 19 15  
 Sdg. Mch. Lucas Reel 5 Shot (Heart) 1 lbs.  
 Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 1438 fms.  
 Sdg. Cup Sigsbee Amt. Bot'm Sample \_\_\_\_\_  
 Character of Bottom bn M  
 Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
 { No. \_\_\_\_\_ { Stem. \_\_\_\_\_  
 Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
 Temp. Surf. { 54.0 Time 11:00 P Air { 57.0  
 { \_\_\_\_\_ Time \_\_\_\_\_ { \_\_\_\_\_  
 Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
 Wind: Direction 77 Force 2-3  
 Baromet. 30.10 Amt. of Clouds 5 State of Sea M  
 Weather bc

Direction and Force of Current { Surface \_\_\_\_\_  
 { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 69 1/8  
196 3/4 miles

Chart used: No. Plotting Sheet No 9 Ed'n 1981

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks:

Deck Officer

Mr. Cassidy

Recorder

John D. ...

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
10 25 40	10 55 15		0			
26 30	52 35		100			
27 30	52 15		200			
28 30	52 00		300			
29 30	52 45		400			
30 30	52 00		500			
31 40	51 15		600			
32 40	50 25		700			
34 05	49 30		800			
35 30	48 25		900			
36 45	47 40		1000			
38 05	46 45		1100			
39 25	45 55		1200			
40 40	45 00		1300			
42 10	44 05		1400			
10 43 00	10 43 15	1420	1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

11-1029

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
M. Down.			Up.	M.			M. Down.	Up.	M.
11	35	15	11	46	20	0			
	35	55		45	20	100			
	36	40		44	25	200			
	38	15		43	55	300			
	39	55		43	05	400			
11	41	20	11	42	00	500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
						2200			
						2300			
						2400			
						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

~~Hydrog.~~ } No. 615 Date, June 16, 1915  
Sdg. Mch. Tanner Reel 1 ~~Shot~~ Lead 30 lbs.  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth \_\_\_\_\_ fms.  
Sdg. Cup 500 Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom \_\_\_\_\_

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
              { No. \_\_\_\_\_                 { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 53° Time 12:30 } Air {  
                  { \_\_\_\_\_ Time \_\_\_\_\_ } \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction W Force 2

Baromet. 30.1 Amt. of Clouds 2 State of Sea M

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 20 1/4 miles  
59.571

Chart used: No. Plotting Sheet No 9 Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

## SOUNDING WIRE.

M. Down. Up. M.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400  
2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900



6147

157

Dredge } No. \_\_\_\_\_ Date \_\_\_\_\_, 19 \_\_\_\_  
 Hydrog. }  
 Sdg. Mch. *Lucas* Reel \_\_\_\_\_ Shot }  
 Lead } lbs.  
 Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth \_\_\_\_\_ fms.  
 Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
 Character of Bottom *0 1 M. Bottom*

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
 No. \_\_\_\_\_ Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { Time \_\_\_\_\_ } Air {  
 Time \_\_\_\_\_ }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_

Baromet. *30.11* Amt. of Clouds *4* State of Sea *N*

Weather *10*

Direction and Force of Current { Surface \_\_\_\_\_  
 Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality *Off Washington Coast*

Position *Pachena Pt. Light bears N 70° E (true) distant 211 miles*

Chart used: No *Plotting Sheet No 9* Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks:

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
16 00	1	24 20	0			
16 40	1	23 45	100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

6148

155

Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 19\_\_\_\_  
 Hydrog. }  
 Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.  
 Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth \_\_\_\_\_ fms.  
 Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
 Character of Bottom \_\_\_\_\_

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
 { No. \_\_\_\_\_ { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { Time \_\_\_\_\_ } Air {  
 { Time \_\_\_\_\_ }

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_

Baromet. \_\_\_\_\_ Amt. of Clouds \_\_\_\_\_ State of Sea \_\_\_\_\_

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
 { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality \_\_\_\_\_ Off Washington Coast

Position Pachena Pt. Light bears <sup>19° 56'</sup> N 70° E (true) distant \_\_\_\_\_

Chart used: No. <sup>Plotting Sheet</sup> No 9 Ed'n \_\_\_\_\_ 215 3/4 miles

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down.	Up.	M.
202		5
20		8
20		05
20		35
		00
		30

M. Down.	Up.	M.
----------	-----	----

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400  
2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900

614  
Dredge } No.  
Hydrog. }

Date, Oct 16, 1915

Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot } 85 lbs.  
Lead }

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 1236 fms.

Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom ( gy. s. m. ) \_\_\_\_\_

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
No. \_\_\_\_\_ Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 52 Time 0 17 } Air { 51  
Time \_\_\_\_\_ } \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction S. by W. Force 3

Baromet. \_\_\_\_\_ Amt. of Clouds 5 State of Sea M

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant 22 1/2 miles

Chart used: No Plotting Sheet No 9 Ed'n 7

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder \_\_\_\_\_

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
2 15			0			
2 53			100			
2 54			200			
2 55			300			
2 56			400			
2 57		10 5	500			
2 58		12 2	600			
3 00			700			
3 01			800			
3 02			900			
3 03			1000			
3 04			1100			
3 05			1200			
3 06		15 12 36	1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. \_\_\_\_\_ Date, \_\_\_\_\_, 191  
Hydrog. }  
Sdg. Mch. Lucas Reel \_\_\_\_\_ Shot/Lead \_\_\_\_\_ lbs.  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth \_\_\_\_\_ fms.  
Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom No Bottom

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                   { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 52° Time 4:00a } Air { 56°  
                  { \_\_\_\_\_ Time \_\_\_\_\_ }                   { \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction S.W. Force 13

Baromet. 30.10 Amt. of Clouds 7 State of Sea 111

Weather bc

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality off Washington Coast

Position Pachena Pt. Light bears 187° E (true) distant \_\_\_\_\_

Chart used: No. Plotting Sheet Ed'n 225/4 miles  
  No 9

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder Parker

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
3			0			
3	54	35	100			
3			200			
3	38		300			
3	5	3	400			
3	5	3	500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



157  
Dredge } No. \_\_\_\_\_ Date, Aug 16, 19 21  
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot 35 lbs.  
Lead

Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 100 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample \_\_\_\_\_

Character of Bottom S. M.

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
No. \_\_\_\_\_ Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { 53 Time 5:00 } Air { 1 }  
Time \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction Qu. E. Force 3

Baromet. \_\_\_\_\_ Amt. of Clouds 6 State of Sea 7

Weather bc

Direction and Force of Current { Surface \_\_\_\_\_  
Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Washington Coast

Position Pachena Pt. Light bears N 70° E (true) distant  
230 miles

Chart used: No Plotting Sheet Ed'n \_\_\_\_\_

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks: \_\_\_\_\_

Deck Officer W. J. ... Recorder W. J. ...

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
41 45 20	07 10 10		0			
43 20	09 10		100			
45 00	08 40		200			
47 00	08 10		300			
49 00	07 40		400			
51 00	07 10		500			
53 05	06 40		600			
55 00	06 10		700			
57 05	05 40		800			
59 25	05 10		900			
61 00	04 40		1000			
63 10	04 10		1100			
65 00	03 40		1200			
67 20	03 10		1300			
69 00	02 40		1400			
5 00 00	5 01 20		1500			
5 00 00	5 01 00	15 30	1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. \_\_\_\_\_ Date, April 6, 1918  
Hydrog. }

Sdg. Mch.	Lead	Reel	Shot	Lbs.

<i>Turns</i>	<i>Cor'n</i>	<i>Depth</i>	<i>fms.</i>
--------------	--------------	--------------	-------------

Sdg. Cup (Amount) Amt. Bot'm Sample

### Character of Bottom

Thermom.  $\left\{ \begin{array}{l} \text{Make} \text{ -----} \\ \text{No.} \text{ -----} \end{array} \right.$  Cor'n  $\left\{ \begin{array}{l} \text{Instr.} \\ \text{Stem.} \end{array} \right.$

Bottom Reading Cor'd Temp.

Temp. Surf. { 54° Time 6:00a } Air { 59°  
Time

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction *N. W.* Force *3*

Baromet. 30.13 Amt. of Clouds 5- State of Sea M

Weather *100*

<i>Direction and Force of Current.</i>	{	<i>Surface</i>
		<i>Bottom</i>

Tide, \_\_\_\_\_

General Locality *Off Washington Coast*

position Cape Beale Light bears  $N 70^{\circ} E$  (true) distant 92.7 miles

Chart used: No. Plotting Sheet Ed'n 12 f miles  
No. 9 250.3

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul .....

### Apparatus and Rig used

<i>Time towing</i>	<i>h.</i>	<i>m.</i>
--------------------	-----------	-----------

*Remarks:*

Deck Officer, Recorder,

SOUNDING WIRE.						FMS.	DREDGING CABLE.						
M. Down.			Up.		M.		M. Down.		Up.		M.		
5	52	10	6	00	00	0							
52	40					100							
53	30					200							
54	20					300							
55	10					400							
56	00					500							
						600							
						700							
						800							
						900							
						1000							
						1100							
						1200							
						1300							
						1400							
						1500							
						1600							
						1700							
						1800							
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						2200							
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						2500							
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						2700							
						2800							
						2900							
						3000							
						3100							
						3200							
						3300							
						3400							
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						3700							
						3800							
						3900							
						4000							
						4100							
						4200							
						4300							
						4400							
						4500							
						4600							
						4700							
						4800							
						4900							

Dredge } No. 6153 Date, *Aug 10*, 19*23*  
 Hydrog. }  
 Sdg. Mch. *Lucas* Reel *Lucas* Shot } 30 lbs.  
 Lead }  
 Turns ..... Cor'n ..... Depth ..... fms.  
 Sdg. Cup *Lucas* Amt. Bot'm Sample .....  
 Character of Bottom *No. 4*  
 Thermom. { Make ..... Cor'n { Instr. ....  
 { No. .... { Stem. ....  
 Bottom Reading ..... Cor'd Temp. ....  
 Temp. Surf. { *54°* Time *6:00* } Air { *62°*  
 { ..... Time ..... } { .....  
 Density: Surf. .... fms. ....  
 Wind: Direction *W.W.* Force *3*  
 Baromet. *30.12* Amt. of Clouds *5* State of Sea *2*  
 Weather *bc*  
 Direction and Force of Current { Surface .....  
 { Bottom .....  
 Tide .....

General Locality *Off Washington Coast*  
 Position *Cape Beale Light bears N 71° E (true) distant 22.7 miles*  
 Chart used: No. *Plotting Sheet No. 109* *250.3*  
 Drift: Direction ..... Distance .....  
 Depth of Haul .....  
 Apparatus and Rig used ....

Time towing h. m.

Remarks:

Deck Officer *A. J. ...* Recorder *A. J. ...*

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
36 30	47 30		0			
37 10	47 50		100			
37 50	48 10		200			
38 30	48 30		300			
39 10	48 50		400			
39 50	49 10		500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 1154 Date, \_\_\_\_\_, 19\_\_  
Hydrog. }  
Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot/Leads \_\_\_\_\_ lbs.  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth \_\_\_\_\_ fms.  
Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom \_\_\_\_\_  
Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                   { Stem. \_\_\_\_\_  
Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
Temp. Surf. { \_\_\_\_\_ Time \_\_\_\_\_ } Air { \_\_\_\_\_  
                  { \_\_\_\_\_ Time \_\_\_\_\_ }                   { \_\_\_\_\_  
Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
Wind: Direction \_\_\_\_\_ Force \_\_\_\_\_  
Baromet. 30.14 Amt. of Clouds 5- State of Sea \_\_\_\_\_  
Weather \_\_\_\_\_  
Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_  
Tide \_\_\_\_\_

General Locality off Washington Coast  
Position Cape Beale Light bears N 72° E (true) distant 22.7 miles  
Chart used: No Plotting Sheet No 9 Ed'n \_\_\_\_\_  
Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_  
Depth of Haul \_\_\_\_\_  
Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.  
Remarks:

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down. | Up. | 2 M.

M. Down. | Up. | M.

7	23	00	7	30	15	0
---	----	----	---	----	----	---

23	35	20	35			100
----	----	----	----	--	--	-----

24	15	29	05			200
----	----	----	----	--	--	-----

25	10	28	35			300
----	----	----	----	--	--	-----

26	10	28	05			400
----	----	----	----	--	--	-----

27	15	27	35			500
----	----	----	----	--	--	-----

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900



Dredge } No. 6135 Date, Aug 11, 1912  
Hydrog. }  
Sdg. Mch. Lucas Reel Shot & Lead 30 lbs.  
Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth 50 fms.  
Sdg. Cup \_\_\_\_\_ Amt. Bot'm Sample \_\_\_\_\_  
Character of Bottom \_\_\_\_\_

Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
                  { No. \_\_\_\_\_                   { Stem. \_\_\_\_\_

Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_

Temp. Surf. { \_\_\_\_\_ Time 8:15 } Air { \_\_\_\_\_  
                  { \_\_\_\_\_ Time \_\_\_\_\_ }                   { \_\_\_\_\_

Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_

Wind: Direction \_\_\_\_\_ Force 3

Baromet. 30.14 Amt. of Clouds 6 State of Sea 11

Weather \_\_\_\_\_

Direction and Force of Current { Surface \_\_\_\_\_  
  { Bottom \_\_\_\_\_

Tide \_\_\_\_\_

General Locality Off Washington Coast

Position Cape Beale Light bears N 73° E (true) distant 22.7 miles

Chart used: No. Plotting Sheet Ed'n 109

Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_

Depth of Haul \_\_\_\_\_

Apparatus and Rig used \_\_\_\_\_

Time towing h. m.

Remarks: \_\_\_\_\_

Deck Officer \_\_\_\_\_ Recorder Blaker

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
M. DOWN.		UP.	M.		M. DOWN.	UP.	M.
8	10	00	17 40	0			
				100			
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. *6156* Date, *Aug 12*, 19*12*  
 Hydrog. }  
 Sdg. Mch. \_\_\_\_\_ Reel \_\_\_\_\_ Shot *35* lbs.  
 Lead \_\_\_\_\_  
 Turns \_\_\_\_\_ Cor'n \_\_\_\_\_ Depth: *1600* fms.  
 Sdg. Cup *Wheeler* Amt. Bot'm Sample \_\_\_\_\_  
 Character of Bottom *Fine sand*  
 Thermom. { Make \_\_\_\_\_ Cor'n { Instr. \_\_\_\_\_  
 { No. \_\_\_\_\_ { Stem. \_\_\_\_\_  
 Bottom Reading \_\_\_\_\_ Cor'd Temp. \_\_\_\_\_  
 Temp. Surf. { *56* Time *9.38* } Air {  
 { \_\_\_\_\_ Time \_\_\_\_\_ }  
 Density: Surf. \_\_\_\_\_ fms. \_\_\_\_\_  
 Wind: Direction *nnw* Force *2*  
 Baromet. *15* Amt. of Clouds *6* State of Sea \_\_\_\_\_  
 Weather *bc*  
 Direction and Force of Current { Surface \_\_\_\_\_  
 { Bottom \_\_\_\_\_  
 Tide \_\_\_\_\_

General Locality *Off Cape Washington Coast*  
 Position *73°41'18"*  
*Cape Beale light bears N 73°E (true) distant*  
*22 1/8 mile*  
 Chart used: No. *Plotting Sheet No 9* Ed'n \_\_\_\_\_  
 Drift: Direction \_\_\_\_\_ Distance \_\_\_\_\_  
 Depth of Haul \_\_\_\_\_  
 Apparatus and Rig used \_\_\_\_\_

Time towing \_\_\_\_\_ h. \_\_\_\_\_ m.

Remarks:

Deck Officer \_\_\_\_\_

Recorder \_\_\_\_\_

## SOUNDING WIRE.

FMS.

## DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

103	5	37	00
04	45	36	15
05	00	35	30
06	30	35	00
07	00	34	00
08	00	33	10
09	00	33	00
10	50	32	20
11	00	31	30
12	00	31	00
13	00	30	00
14	35	30	00
15	55	29	15
17	20	28	20
18	00	27	30
19	00	27	20
21	40	25	15
23	00	24	00

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400  
2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000  
4100  
4200  
4300  
4400  
4500  
4600  
4700  
4800  
4900

~~Drawn~~ } No. 6157 Date, , 19  
Hydrog. }  
Sdg. Mch. Reel Shot Lead lbs.  
Turns Cor'n Depth fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom

Thermom. { Make Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 56° Time 10.30 } Air { 64  
Time

Density: Surf. fms.

Wind: Direction 71° Force 3

Baromet. 30.16 Amt. of Clouds 7 State of Sea 71

Weather h. f.

Direction and Force of Current { Surface Bottom

Tide

General Locality Off Washington Coast

Position Cape Beale Light bears N 73° E (true) distant 2 1/6 miles

Chart used: No. Plotting Sheet Ed'n 1899

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Cassin

Recorder

## SOUNDING WIRE.

*A* M. Down. | Up. | *A* M.

*10* 1 43 2 13  
 1 15 2 15  
 1 17 2 17  
 1 19 2 19  
 1 21 2 21  
 1 23 2 23  
 1 25 2 25  
 1 27 2 27  
 1 29 2 29

FMS.

0  
 100  
 200  
 300  
 400  
 500  
 600  
 700  
 800  
 900  
 1000  
 1100  
 1200  
 1300  
 1400  
 1500  
 1600  
 1700  
 1800  
 1900  
 2000  
 2100  
 2200  
 2300  
 2400  
 2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000  
 4100  
 4200  
 4300  
 4400  
 4500  
 4600  
 4700  
 4800  
 4900

## DREDGING CABLE.

M. Down. Up. M.

~~Bridge~~ } No. 6156 Date, 10, 1906  
Hydrog. }  
Sdg. Mch. Reel Shot/Lead lbs.  
Turns Cor'n Depth 500 fms.  
Sdg. Cup Amt. Bot'm Sample  
Character of Bottom

Thermom. { Make Cor'n { Instr.  
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 56° Time 11:18 } Air { 64°  
Time

Density: Surf. fms.

Wind: Direction Force 2

Baromet. 30.14 Amt. of Clouds 4 State of Sea 7.1

Weather

Direction and Force of Current { Surface  
Bottom

Tide

General Locality Off Washington Coast

Position Cape Beale Light bears N 73° 51' 53" E (true) distant 210 4/5 miles

Chart used: No. Plotting Sheet No. 7 Ed'n 7117

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
11 07 30		17 00	0			
08 15		16 15	100			
09 35		15 35	200			
10 55		14 55	300			
11 45		14 00	400			
13 22		13 30	500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
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			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			



Dredge } No. 6159 Date, Aug 16, 1915  
 Hydrog. }  
 Sdg. Mch. Lucas Reel L Shot Lead 30 lbs.  
 Turns Cor'n Depth 100 fms.  
 Sdg. Cup soft soap Amt. Bot'm Sample  
 Character of Bottom No Bottom

Thermom. { Make Cor'n { Instr.  
 No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 56° Time 11.56 Air { 64°  
 Time

Density: Surf. fms.

Wind: Direction N NW Force 3

Baromet. 30.17 Amt. of Clouds 4 State of Sea m

Weather bc

Direction and Force of Current { Surface  
 Bottom

Tide

General Locality Off Washington Coast

Position Cape Beale Light bears N 73° E (true) distant 20.5 miles

Chart used: No. Plotting Sheet No 9 Ed'n 211.9

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer M. Conroy Recorder Blaker

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. DOWN.	UP.	M.		M. DOWN.	UP.	M.
11 46 00		55 20	0			
46 40		54 35	100			
47 40		54 00	200			
48 50		53 20	300			
50 00		52 30	400			
51 10	11 51 40		500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
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			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 6160 Date, Aug 16, 1915  
 Hydrog. }  
 Sdg. Mch. Lucas Reel L Shot 30 lbs.  
 Lead  
 Turns Cor'n Depth 500 fms.  
 Sdg. Cup soft soap Amt. Bot'm Sample  
 Character of Bottom

Thermom. { Make Cor'n { Instr.  
 { No. { Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 56° Time 12:44 P } Air { 64°  
 { Time {

Density: Surf. fms.

Wind: Direction NNW Force 3

Baromet. 30.17 Amt. of Clouds 3 State of Sea III

Weather bc

Direction and Force of Current { Surface  
 { Bottom

Tide

General Locality Off Washington Coast

Position Cape Beale light bears  $73^{\circ} 56' 32''$  N  $73^{\circ} E$  (true) distant 200 miles

Chart used: No Plotting Sheet Ed'n No 9 207.2

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: Lost 30-16. lead. struck the fair-lead and parted strap line.

This book checked  
R & B

Deck Officer Mr. Glick Recorder J. M. Kil

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
M. DOWN.			UP.	M.			M. DOWN.			UP.	M.	
12	33	40	12	44	15	0						
	34	25		41	25	100						
	35	20		40	55	200						
	36	20		40	20	300						
	37	30		39	45	400						
12	38	45	12	39	05	500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
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